AMENDMENTS TO THE CLAIMS

1-17. (canceled)

18. (new) A method comprising: treating cells with an agent that inhibits insulin-induced suppression of adiponectin receptor expression under conditions such that said agent inhibits insulin-induced suppression of adiponectin receptor expression by said cells.

19. (new) The method of Claim 18, wherein said agent comprises a FoxoI gene.

20. (new) The method of Claim 18, wherein said agent comprises a FoxoI protein.

21. (new) The method of Claim 18, wherein said agent is a PI3-kinase pathway inhibitor.

22. (new) The method of Claim 19, wherein said PI3-kinase pathway inhibitor comprises LY294002.

23. (new) The method of Claim 18, wherein said adiponectin receptor comprises adiponectin receptor 1.

24. (new) The method of Claim 18, wherein said adiponectin receptor comprises adiponectin receptor 2.

25. (new) The method of Claim 18, wherein said cells comprise hepatocytes.

26. (new) The method of Claim 18, wherein said cells comprise myocytes.

27. (new) The method of Claim 18, wherein said cells are in a mammalian subject.

28. (new) The method of Claim 27, wherein said mammalian subject has one or more conditions selected from the group consisting of adiponectin resistance, insulin resistance, obesity, type II diabetes and arteriosclerosis.

29. (new) A method of screening a test compound, comprising:

a) treating cells expressing an adiponectin receptor with a test compound in the presence and absence of insulin to produce treated cells;

b) measuring adiponectin receptor expression by said treated cells; and

c) identifying said test compound as inhibiting insulin-induced suppression of adiponectin receptor expression when said adiponectin receptor expression by said cells is reduced to a lesser amount in the presence of said test compound than in its absence.

30. (new) The method of Claim 29, wherein said adiponectin receptor comprises adiponectin receptor 1.

31. (new) The method of Claim 29, wherein said adiponectin receptor comprises adiponectin receptor 2.

32. (new) The method of Claim 29, wherein said cells comprise hepatocytes.

33. (new) The method of Claim 29, wherein said cells comprise myocytes.

34. (new) A method of screening a test compound, comprising:

a) contacting PI3-kinase with a PI3-kinase substrate in the presence and absence of a test compound;

b) measuring PI3 kinase activity; and

c) identifying said test compound as inhibiting insulin-induced suppression of adiponectin receptor expression when said PI3 kinase activity is reduced in the presence of said test compound.

35. (new) A method of screening a test compound, comprising:

a) contacting Akt with a FoxoI in the presence and absence of said test compound;

b) measuring phosphorylation of FoxoI; and

c) identifying said test compound as inhibiting insulin-induced suppression of adiponectin receptor expression when phosphorylation of said FoxoI is reduced in the presence of said test compound.

36. (new) A method for suppressing adiponectin receptor expression comprising: treating cells with insulin or insulin gene under conditions such that said insulin or said insulin gene suppresses adiponectin receptor expression by said cells.